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CLAIMS

1. A radiant energy radiation apparatus, comprising means for radiating illumination light for an illumination purpose, the illumination light containing radiation in a visible wavelength range and radiation in a predetermined wavelength range which permeates into an organism to maintain/promote biofunctions.
2. A radiant energy radiation apparatus according to claim 1, wherein the predetermined wavelength range is a range of 600 nm to 1100 nm.
3. A radiant energy radiation apparatus according to claim 1, wherein the predetermined wavelength range maintains/promotes the biofunctions by increasing a strength of an immune system of the organism.
4. A radiant energy radiation apparatus according to claim 1, wherein radiation in the predetermined wavelength range maintains/promotes the biofunctions by activating an autonomic nervous system.
5. A radiant energy radiation apparatus according to any one of claims 1 to 4, wherein radiation means for radiation in a visible wavelength range and radiation means for radiation in the predetermined wavelength range are integrated together.
6. A radiant energy radiation apparatus according to any one of claims 1 to 4, wherein radiation means for radiation in a visible wavelength range and radiation means for radiation in the predetermined wavelength range are

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independently provided from each other.

5 7. A radiant energy radiation apparatus according to any one of claims 1 to 6, wherein on an irradiated plane to be irradiated with the illumination light, an irradiance at a wavelength in a range of 600 nm to 1100 nm is 0.1 W/m² or more.

10 8. A radiant energy radiation apparatus according to any one of claims 1 to 6, wherein: radiation in the predetermined wavelength range is radiation in a range of 600 nm to 1100 nm; and the radiation in the range of 600 nm to 1100 nm is radiated while being pulse-modulated at 0.5 to 13 Hz.

15 9. A radiant energy radiation apparatus according to any one of claims 1 to 6, wherein on an irradiated plane to be irradiated with the illumination light, radiant energy of radiation at a wavelength in a range of 600 nm to 1100 nm is equal to or greater than 15% of radiant energy of radiation
20 at a wavelength in a visible wavelength range of 380 nm to 780 nm.

25 10. A radiant energy radiation apparatus according to any one of claims 1 to 6, wherein a radiant efficiency of radiation at a wavelength in a range of 600 nm to 1100 nm is equal to or greater than 0.001 W/lm.

30 11. A radiant energy radiation apparatus according to any one of claims 1 to 6, wherein on an irradiated plane to be irradiated with the illumination light, radiant energy of radiation at a wavelength in a range of 1100 nm to 2.5 μ m is smaller than radiant energy of radiation at a wavelength in a range of 600 nm to 1100 nm.

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12. A radiant energy radiation apparatus according to any one of claims 1 to 6, wherein: the illumination light has a color of light which does not cause discomfort; and a deviation (duv) of the chromaticity of light from a Planckian locus in Commission Internationale de l'Eclairage (CIE) 1960 UCS chromaticity diagram is within ± 0.01 .

13. A radiant energy radiation apparatus according to any one of claims 9 to 12, wherein the apparatus has a configuration of a discharge lamp.

14. A radiant energy radiation apparatus according claim 13, wherein the apparatus has a configuration of a fluorescent discharge lamp.

15. A radiant energy radiation apparatus according to any one of claims 9 to 12, wherein the apparatus has a configuration of an incandescent lamp.

16. A radiant energy radiation apparatus according to any one of claims 9 to 12, wherein the apparatus has a configuration of a light source including a solid light emitting device.

17. A radiant energy radiation apparatus, comprising means for radiating radiation in a predetermined wavelength range which has a low visibility for a human and which deeply permeates into an organism to maintain/promote biofunctions.

18. A radiant energy radiation apparatus according to claim 17, wherein the predetermined wavelength range is a

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range of 600 nm to 1100 nm.

5 19. A radiant energy radiation apparatus according to claim 17, wherein radiation in the predetermined wavelength range maintains/promotes the biofunctions by increasing a strength of an immune system of the organism.

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10 20. A radiant energy radiation apparatus according to claim 17, wherein radiation in the predetermined wavelength range maintains/promotes the biofunctions by activating an autonomic nervous system.

15 21. A radiant energy radiation apparatus according to any one of claims 17 to 20, wherein on an irradiated plane to be irradiated with radiation, an irradiance at a wavelength in a range of 700 nm to 1100 nm is 0.03 W/m² or more.

20 22. A radiant energy radiation apparatus according to any one of claims 17 to 20, wherein: radiation in the predetermined wavelength range is radiation in a range of 700 nm to 1100 nm; and radiation in the range of 700 nm to 1100 nm is radiated while being pulse-modulated at 0.5 to 13 Hz.

25 23. A radiant energy radiation apparatus according to any one of claims 17 to 20, wherein on an irradiated plane to be irradiated with radiation, radiant energy of radiation at a wavelength in a range of 1100 nm to 2.5 μ m is smaller than radiant energy of radiation at a wavelength in a range
30 of 700 nm to 1100 nm.

24. A radiant energy radiation apparatus according to any one of claims 21 to 23, wherein the apparatus has a.

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configuration of a discharge lamp.

25. A radiant energy radiation apparatus according claim 24,
wherein the apparatus has a configuration of a fluorescent
5 discharge lamp.

26. A radiant energy radiation apparatus according to any one of claims 21 to 23, wherein the apparatus has a configuration of an incandescent lamp.

27. A radiant energy radiation apparatus according to any one of claims 21 to 23, wherein the apparatus has a configuration of a light source including a solid light emitting device.

28. A radiant energy radiation apparatus according to any one of claims 17 to 27, wherein the apparatus has an illumination function of providing illumination light for an illumination purpose.

29. A radiant energy radiation apparatus according to any one of claims 17 to 27, wherein the apparatus has a display function of displaying a predetermined image.

25 30. A radiant energy radiation apparatus according to claim 29, wherein the predetermined image is displayed by the means for radiating radiation in the predetermined wavelength range.

30 31. A radiant energy radiation apparatus according to claim 29, further comprising display means for displaying the predetermined image, wherein the means for radiating radiation in the predetermined wavelength range is attached

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S. YAMAMOTO OSAKA

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to the display means.

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